## **CLAIMS**

- 1. A particle comprising:
  - (a) a protein envelope with a fusion protein comprising a virus protein, a cell permeability-mediating peptide and a heterologous cell-specific binding site; and
- 5 (b) nucleic acid sequences present in the protein envelope, comprising a sequence encoding a virus-specific packaging signal and a sequence encoding a structural gene.
  - 2. The particle according to claim 1, wherein the virus protein is derived from an adenovirus, adeno-associated virus, vaccinia virus, baculovirus or hepadnavirus.
  - 3. The particle according to claim 2, wherein the hepadnavirus is a hepatitis B virus.
- 10 4. The particle according to any of claims 1-3, wherein the virus protein is a surface protein.
  - 5. The particle according to claim 4, wherein the surface protein is an LHBs.
  - 6. The particle according to any of claims 1-3, wherein the virus protein is a core protein.
  - 7. The particle according to claim 6, wherein the core protein is an HBcAg.
  - 8. The particle according to any of claims 1-7 wherein the cell permeability-mediating peptide comprises the following amino acid sequence: P L S S I F S R I G D (SEQ ID NO:20)
  - 9. The particle according to any of claims 1-8, wherein the heterologous cell-specific binding site is RGD.
  - 10. The particle according to any of claims 1-9, wherein the fusion protein is that in Fig. 1 (SEQ ID NO\_\_\_) or 2 (SEQ ID NO:\_\_\_).
    - 11. A method for the preparation of the particle according to claim 1, wherein the fusion protein contains an LHBs and a heterologous cell-specific binding site, comprising the following method steps:

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- (a) cotransfection of cells which code for a hepatitis B virus genome, wherein these cells do not express LHBs, with a first expression vector coding for a fusion protein which comprises an LHBs and a heterologous cell-specific binding site, and with a second expression vector comprising a virus-specific packaging signal and a structural gene; and
- (b) isolation and purification of the particle.
- 12. A method for the preparation of the particle according to claim 1, wherein the fusion protein comprises an HBcAg, a cell permeability-mediating peptide and a heterologous cell-specific binding site, comprising the following method steps:
  - (a) cotransfection of cells coding for an HBV polymerase with a first expression vector coding for a fusion protein which comprises an HBcAg, a cell permeability-mediating peptide and a heterologous cell-specific binding site, and with a second expression vector comprising a virus-specific packaging signal and a structural gene, and
  - (b) isolation and purification of the particle.
- 13. A fusion protein, comprising a virus protein, a cell permeability-mediating peptide and a heterologous cell-specific binding site.
- 14. The fusion protein according to claim 13, comprising the amino acid sequence of Fig. 1 or 2 or an amino acid sequence differing therefrom by one or more amino acids.
- 15. A DNA which codes for the fusion protein according to claim 13.
- 20 16. A DNA which codes for the fusion protein according to claim 14, including,
  - (a) the DNA from Fig. 1 (SEQ ID NO:\_\_\_) or 2 (SEQ ID NO:\_\_\_) or a DNA differing therefrom in one or more base pairs; or
  - (b) A DNA which is related to the DNA of (a) by virtue of the degenerate genetic code.
  - 17. An expression vector which codes for the DNA according to claim 16.